50X1-HUM

CLASSIFITION

CENTRAL INTELLIGENCE AGENCY INFORMATION FROM

FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

CD NO.

COUNTRY

USSR

DATE OF

SUBJECT

Scientific - Biochemistry

INFORMATION

HOW

PUBLISHED Weekly newspaper DATE DIST. 20 May 1949

1949

WHERE

PUBLISHED

NO. OF PAGES

DATE

PUBLISHED

13 Apr 1949

SUPPLEMENT TO

LANGUAGE Russian REPORT NO.

THIS IS UNEVALUATED INFORMATION

SOURCE Meditsinskiy Rabolnik, No 15 (827), 1949.

13

SERGEY RUFOVICH MARDASHEV, LAUREATE OF THE STALIN PRIZE

Prof. B. Zbarekiy Hero of Socialist Labor Active Mem, Acad Med Sci USSR

Mardashev is one of the foremost young biochemists. He is well known for his work with problems on nitrogen exchange, amino acids and their compounds. He was one of the firs in the USSR to obtain a crystalline form of insulin by extracting it with methyl alcohol. Much of his research involved the use of enzymes in the creatment of tumors. He is rated as one of the forecast experts on enzymotherapy of tumors.

At present, Mardashev is studying various problems concerning albumin. Such scientists as N. D. Zelinskiy, N. I. Carrilov, D. L. Talmud, V. A. Engel'gardt, M. N. Lyubimova, A. Ye. Fraumentsyn, and M. G. Kritsman have already done much to explain the structure of albumin and its exchange in living plant and animal cells.

During the latter part of 1947, Mardashev published his well known work, "Bacterial Decemberylase of Asparaginic Acid." In it he described the isolation of a new bacteria, the pseudomycobacterium, which is characterized by its action only on asparaginic acid. The action of this bacteria releases a directly propertional amount of carbonic acid from asparagings acid. He also developed a method for determining the presence of asparaginic acid in albumin and the amount of its products with a tolerance of tenths of milligrams. Soon, thereafter, he discovered the aspartic-decarboxylase, an enzyme which catalyzes the asparaginic acid within the bacteria. There is no doubt that the method of determining the presence of asparaginic acid with the aid of the aspartic decarboxylase will find wide application in techniques for identifying this amino acid not only in albumin, but also many complex biologic fluids, such as blood, lymph, cell fluids, etc. As a result of his work, Mardashey discovered a new batteria, established the specific nature of its activity on asperaginic acid, found a new enzyma, and developed a new method for determining the presence of separaginic acid.

		CLASSIFICATION	SECRET		
STATE	X NAVY	NSRB	DISTRIBUTION	T	
ARMY	X AIR	X FB≀			 -

Sanitized Copy Approved for Release 2011/06/28 : CIA-RDP80-00809A000600221185-2

SECRET

50X1-HUM

In his most recent publications, Mardashev reported some new methods for determining the presence of asparaginic acid. The reports are based on experiments which he and his co-workers, Semina, Gladkova, Etingof, and Balyasna, conducted during 1948 and 1949. They established the presence of a new enzyme which also proved an effective catalytic agent of asparaginic acid. Mardashev was able to prove that the catalysis of asparaginic acid progresses according to a process which has, as yet, not been determined, and is temporarily known as the omega-decarboxylization of asparaginic acid.

- END -

SECRET